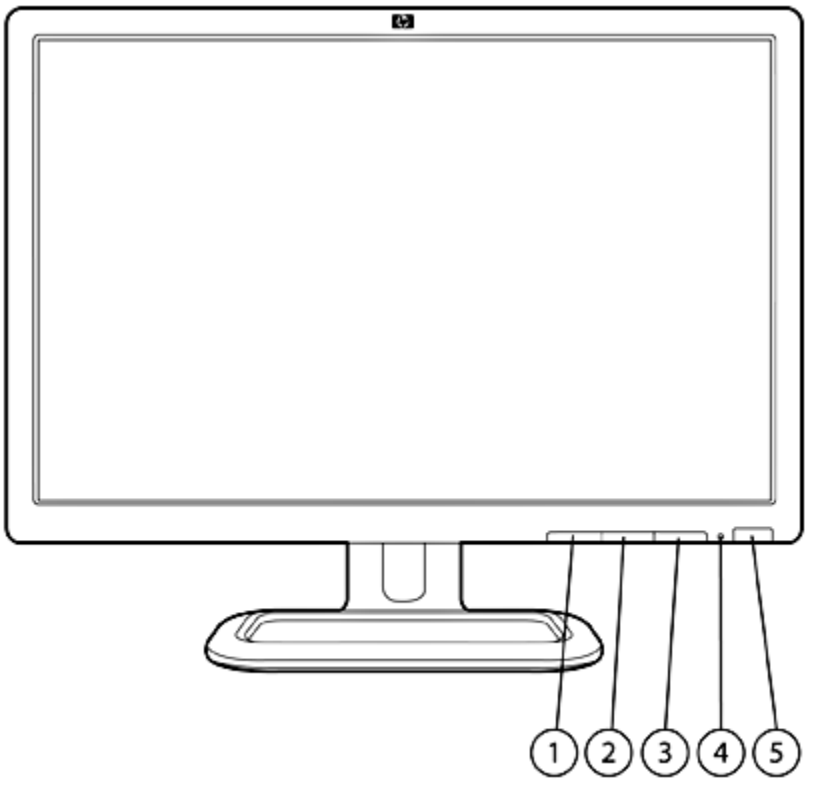
Overview



1. Menu/select: Opens, selects or exits the OSD menu.
2. "-"/Auto: Navigates backward through the OSD menu and decreases adjustment levels; when the OSD menu is inactive, activates the auto adjustment feature to optimize the screen image.
3. "+": Navigates forward through the OSD menu and increases adjustment levels.
4. Power LED: fully powered = green; sleep mode = amber; sleep timer mode = flashing amber.
5. Power: Turns the monitor on or off.

Model

KA214AA

Technical Specifications

Panel	Type	19-in (48.25-cm) Wide-Aspect Active Matrix TFT (thin film transistor)
	Viewable Image Area (diagonal)	19 in (48.25 cm) wide (WXGA+); diagonally measured
	Screen Opening (W x H)	16.1 x 10.1 in (40.98 x 25.67 cm)
	Viewing Angle (typical)	Up to 160° horizontal/160° vertical (10:1 minimum contrast ratio)
	Brightness (typical)*	300 nits (cd/m^2)
	Contrast Ratio (typical)*	1000:1
	Response Time (typical)*	≤5 ms (on/off)
	Pixel Pitch	0.285 mm
	Backlight Lamp Life (to half brightness)	50 K hours
	* All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.	
On Screen Display (OSD) Controls	Buttons or Switches	Auto adjust/OSD down, OSD UP, OSD menu select, power
	Languages	English, Brazilian Portuguese, French, German, Spanish, Italian, Dutch, and Japanese, S. Chinese
	User Controls	Brightness, contrast, positioning, color temperature (6500k, 9300k, custom), individual color control, serial number, display, clock, clock phase, monitor management, factory reset, zoom, volume control
Signal Interface/ Performance	Horizontal Frequency	24 to 83 kHz
	Vertical Frequency	50 to 76 Hz
	Native Resolution	1440 x 900 @ 60 Hz
	Preset VESA Graphic Modes (non-interlaced)	1280 x 1024 @ 60 Hz and 75 Hz
		1024 x 768 @ 60 Hz and 75 Hz
		800 x 600 @ 60 Hz and 75 Hz
		640 x 480 @ 60 Hz and 75 Hz
	Text Mode	720 x 400 @ 70 Hz
	Mac Mode	1152 x 870 @ 75 Hz and 832 x 624 @ 75 Hz
	Sun Mode	1152 x 900 @ 66 Hz
	Maximum Pixel Clock Speed	140 MHz (analog input)
	User Programmable Modes	Yes, 10
	Anti-Glare	Yes
	Anti-Static	Yes
	Default Color Temperature	6500 K
Video Input	Plug and Play	Yes
	Self Powered USB 2.0 Hub	Yes
	Input Signal	DVI-D connector (DVI cable not included), 15-pin D-sub (analog VGA), VGA cable included
	Input Impedance	75 ohms ± 10%

Technical Specifications

	Sync Input	TTL separate synch or Composite Sync	
	VGA Cable	15 pin D-sub VGA	
	VGA Cable Length	5.9 ft (1.8 m)	
Audio	Speakers	Integrated rear firing	
	Output power	2 watt per channel	
	Controls	Volume, OSD selectable	
	Audio cable	Included, length: 5.9 ft (1.8 m)	
Power	Input Power	Auto-Sensing, 100 to 240 VAC, 50 +/-3 Hz to 60 +/-3 Hz)	
	Frequency	45 to 63 Hz	
	Typical Power Consumption	37 watts	
	Maximum	50 watts	
	Power Saving	2 watts standby;1 watt off	
	Power Cable Length	6.2 ft (1.9 m)	
Mechanical	Dimensions (H x W x D)	Unpacked w/stand	14.6 x 17.6 x 7.3 in (37.0 x 44.6 x 18.7 cm)
		Unpacked w/o stand (head only)	11.9 x 17.6 x 2.3 in (30.1 x 44.6 x 5.9 cm)
		Packaged	16.7 x 21.2 x 6.9 in (42.3 x 53.6 x 17.4 cm)
	Weight	Unpacked	12.4 lb (5.63 kg)
		Packaged	14.2 lb (6.45 kg)
	Tilt Range	-5° to + 30° vertical	
	Swivel Range	No	
	Height Adjustable	No	
	Pivot Rotation	No	
	Base and Stand	Detachable, ships attached	
Environmental	Temperature – Operating	41° to 104° F (5° to 40° C)	
	Temperature – Non-operating	-29° to 140° F (-34° to 60° C)	
	Humidity – Operating	20% to 80% non-condensing	
	Humidity – Non-operating	5% to 95%, 38.7° C max wet-bulb	
	Altitude – Operating	+12,000 ft (3,658 m)	
	Altitude – Non-operating	+40,000 ft (12,192 m)	
Environmental Data	Eco-Label Certifications and Declarations	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:	

- ENERGY STAR®
- US Federal Energy Management Program (FEMP)
- IT ECO declaration
- TCO 03
- Taiwan Green Mark
- CECP
- EU Flower (2001/686/EC & 2001/687/EC)

- GEEA

Energy Consumption in accordance with ENERGY STAR® test method	AC Input Voltage at 100 VAC +/- 5 VAC, 50 Hz +/- 3 Hz	AC Input Voltage at 115 VAC +/- 5 VAC, 60 Hz +/- 3 Hz	AC Input Voltage at 230 VAC +/- 5 VAC, 50 Hz +/- 3 Hz
Normal Operation	36 watts	37 watts	37 watts
Sleep	2 watts	2 watts	2 watts
Off	1 watt	1 watt	1 watt
Heat Dissipation*	AC Input Voltage at 100 VAC +/- 5 VAC, 50 Hz +/- 3 Hz	AC Input Voltage at 115 VAC +/- 5 VAC, 60 Hz +/- 3 Hz	AC Input Voltage at 230 VAC +/- 5 VAC, 50 Hz +/- 3 Hz
Normal Operation	123 BTU/hr	123 BTU/hr	123 BTU/hr
Sleep	6.82 BTU/hr	6.82 BTU/hr	6.82 BTU/hr
Off	3.41 BTU/hr	3.41 BTU/hr	3.41 BTU/hr

* Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Longevity and Upgrading

Upgradeability features contained in the product include:
One upstream and two downstream USB ports

Ergonomics

The monitor meets the ergonomic requirement of EN-ISO 13406-2 for flat panel displays.

Additional Information

This product is in compliance with the Restrictions of Hazardous Substances (RoHS) Directive, 2002/95/EC.

This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive, 2002/96/EC.

Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.

Display meets the requirement for low frequency electromagnetic fields per MPR-II, TCO, and prEN50279 A/B/C.

This product contains 0% recycled materials (by wt.)

This product is 95% recyclable when properly disposed of at end of life.

Packaging Materials

- Corrugated Carton – 0.96 kg
- HDPE Bag – 0.09 kg
- Polystyrene – 0.55 kg

Material Usage

This product does not contain any of the following substances in excess of regulatory limits refer to the HP General Specification for the Environment at: www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants – may not be used as flame retardants in plastics

- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Packaging

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: www.hp.com/recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

Hewlett-Packard Corporate Environmental Information

For more information about HP's commitment to the environment:
Global Citizenship Report
www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
Eco-label certifications
www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html
ISO 14001 certificates:
www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html

Options

HP LCD Monitor Quick — An easy-to-use, VESA-compliant, LCD monitor mounting solution that allows

Technical Specifications

	Release – Part number EM870AA*	you to quickly and securely attach a flat panel monitor to a variety of stands, brackets, arms or wall mounts. For more information, refer to this product's QuickSpecs document.
	HP Compaq dc 7800 Series Ultra-slim Desktop Integrated Work Center Stand – Part number: GN783AA	Allows mounting of a 17- or 19-inch HP LCD monitor and an HP Compaq dc7800 Ultra-slim Desktop PC on a single stand for the convenience of an "all-in-one" form factor. Sold separately. For more information, refer to this product's QuickSpecs document.
	* The HP Quick Release has been designed to support a maximum of up to 24 lbs (10.9 kg) depending upon the mounting configuration used. Please note this is a total weight limit for all devices mounted, i.e. the combined weight of the monitor and a second device such an HP Thin Client cannot exceed 24 pounds. Because mounting surfaces vary widely and the final mounting method and configuration may vary, mounting fasteners are not supplied (other than the VESA-compliant screws). HP recommends that you consult with a qualified engineering, architectural or construction professional to determine the appropriate type and quantity of mounting fasteners required for your application and to ensure that your mounting solution is properly installed to support applied loads.	
Other	Accessories Included	VGA cable – connects the graphic card's VGA connector to the monitor's VGA input, Audio cable – connects the audio out jack on the PC to audio in jack on the monitor.
	Software	HP Display Assistant is a software utility that allows monitor adjustment and color calibration using the Display Data Channel Command Interface (DDC/CI) protocol of the connected PC. HP Display LiteSaver allows you to schedule Sleep mode at preset times to help protect the monitor against image retention, drastically lower power consumption and energy costs, and extend the lifespan of the monitor.
	User Guide Languages	English, B. Portuguese, French, LA Spanish, Korean, S. Chinese, T. Chinese, Bahasa, Japanese, Danish, Finnish, German, Norwegian, Spanish, Swedish, Greek, Polish, Russian, Slovenian, Turkish
	Warranty Languages	English, Canadian French, LA Spanish, Brazilian Portuguese, Danish, German, Castilian Spanish, French, Italian, Dutch, Norwegian, Finnish, Swedish, Bahasa Indonesian, Korean, T. Chinese, S. Chinese
	Color	Carbonite/Silver, All carbonite (NA only)
	VESA External Mounting	Yes (Two sets of Standard 4 hole pattern, 100 mm) Use of the top VESA 4 hole pattern will allow the user to set monitor head lower to the desk surface
	Kensington Lock-ready	Yes
Certification and Compliance	TCO'03, ISO 13406-2 VDT Guidelines Approval, MPR-II Compliant, CISPR Requirements, VCCI Approvals, MIC (Korean) Requirements, CSA, Australian ACA Approval, "GS" Mark, TUV Approvals, CE Marking, FCC Approval, ENERGY STAR® qualified, PC-2001 Certified, Microsoft® Windows® Certification (Microsoft® Windows® 98, Microsoft Windows 2000, Microsoft Windows XP, and Windows Vista®)	
Compatibility	Compatible with platforms using the VESA standard video modes. Recommended for use with HP products.	
Service and Warranty	Three years parts, labor, and on-site service. 24-hour, 90-day, toll-free technical support. Replacement options may include second business day on-site service, or next business day direct replacement, at HP's sole discretion.* With direct replacement, HP will ship a replacement display product directly to you. Using the prepaid shipping labels provided, return your failed display to HP in the same packaging as the replacement. Certain restrictions and exclusions apply. For details see your product warranty or contact HP Customer Support.	

* Service levels and response times for HP Care Packs may vary depending on your geographic location. Restrictions and limitations apply. For details, visit www.hp.com/go/carepack.

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